

FSG readout unit



Description

Model ACE-600A FSG (foil strain gage) readout unit is an electrical sensor readout unit contacting sensory tools (so-called strain meters).

The FSG readout unit can be easily used even by beginners because 8 function keys are operated by using a membrane switch. Also a large LCD screen is adopted to increase visibility.

The measurement value, unit of measurement, gage resistance, bridge type, and battery level are displayed at the same time for easy measurement, and the backlight function makes it easy to measure at night.

The ACE-600A is easily accessible to any foil strain gage of 120 Ω or 350 Ω gage of input resistance full, half and quarter bridges.

There is a max. 32ea of programming ID setting function. By setting the conversion coefficient, zero point, and unit of use for each ID, you can measure the final engineering unit value required by the user according to the set ID.

In order to effectively extend the battery life, it has a 10 minute unit auto shut-off function and a nickel-metal hydride rechargeable battery allows for 20 hours of continuous use on a single charge.

The external case of ACE-600A is made of highly durable waterproof ABS plastic to stand and vibration or impact with high reliability.

Applications

The ACE-600A FSG readout unit can contact any electrical resistance sensor, which uses foil strain gage element to measure pore pressure, displacement, angle, load, stress, strain, underground water level and earth pressure.

Features

- High precision and resolution capacity
- Clear view on large LCD screen
- Showing remaining battery
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- Possible to use in high and low temperature (LCD brightness adjustment)
- Continuous measuring for 20 hours (with nickel-hydride rechargeable battery)
- Eliminate failure rate by adopting Membrane switch
- Programming ID setting function enables measurement in engineering units

Functions

- Power on & off
- Selectable auto power saves
- Mode change
- Selection of full, half and quarter bridge
- Setting the conversion coefficient, zero point, unit of use for each ID
- Section of backlight
- Adjust screen brightness
- Rechargeable battery

Specification

Model	ACE-600A
Applied sensor	FSG sensor (foil strain gage)
Bridge type	Full bridge, half bridge, Quarter bridge
Input resistance	120 Ω , 350 Ω
Range	-99999 ~ 99999 $\times 10^{-6}$ strain
Resolution	1 $\times 10^{-6}$ strain
Accuracy	$\pm 0.1\%$ FSR
Operating temperature	-20~50 $^{\circ}\text{C}$
Input voltage	2 VDC
ID Setting	Use 01~32 programming ID
Battery life	20 hours
Display	256 \times 128 graphic LCD
Power	7.2 VDC / Rechargeable Ni-MH battery
Recharging part	12 VDC / 1,000mA (free volt) adaptor
Dimensions	234 \times 197 \times 114mm
Weight	1.5kg
Material of case	ABS plastic case
Accessories	Rechargeable adaptor